Logix Academy

Docker Commands Handout

Common Docker Commands

Command	Explanation
docker version	Displays Docker client and server
	version information
docker info	Shows detailed information about
	Docker installation
docker login	Log in to a Docker registry
docker logout	Log out from a Docker registry

Docker Image Commands

Command	Explanation
docker images	Lists all images available locally
docker pull <image:tag></image:tag>	Downloads an image from a Docker
	registry
docker push <image:tag></image:tag>	Uploads an image to a Docker registry
docker build -t <name:tag> .</name:tag>	Builds an image using the Dockerfile
	located in the current directory,
	tagging it with the provided name and
	tag
docker rmi <image_id></image_id>	Removes an image by its ID
docker tag <image:tag></image:tag>	Adds a new tag to an existing image
<new_tag></new_tag>	
docker images -f	Lists images matching a specific tag
reference='*: <tag>'</tag>	

Container Management Commands

Command	Explanation
docker ps	Lists running containers
docker ps -a	Lists all containers (running and
	exited)
docker ps -f status=running	List all running containers
docker ps -f status=exited	List all containers with status of exited
docker run <image/>	Runs a container from a specified
	image
docker run -d <image/>	Runs a container in detached
	(background) mode
docker run -it <image/>	Runs a container in interactive mode
docker start <container_id></container_id>	Starts an existing stopped container
docker stop <container_id></container_id>	Stops a running container
docker restart <container_id></container_id>	Restarts a container
docker rm <container_id></container_id>	Removes a stopped container
docker exec -it <container_id></container_id>	Runs a command inside a running
<command/>	container interactively
docker logs <container_id></container_id>	Fetches logs from a container
docker rm -f \$(docker ps -aq)	Forcefully stop and remove ALL
	containers

Multi-Stage Build Commands

Command	Explanation
docker build -t <name:tag> -f</name:tag>	Builds an image using a specific
<dockerfile> .</dockerfile>	Dockerfile
FROM <image/> AS <alias></alias>	Defines an intermediate stage with an
(Dockerfile)	alias
COPYfrom= <alias> <src></src></alias>	Copies files from one stage to another
<dest> (Dockerfile)</dest>	in a multi-stage build

Docker Network Commands

Command	Explanation
docker network ls	Lists all Docker networks
<pre>docker network create <network_name></network_name></pre>	Creates a new Docker network
<pre>docker network inspect <network_name></network_name></pre>	Shows detailed information about a network
<pre>docker network connect <network> <container></container></network></pre>	Connects a container to a network
docker network disconnect <network> <container></container></network>	Disconnects a container from a network
<pre>docker network rm <network_name></network_name></pre>	Removes a Docker network

Docker Compose Commands

Command	Explanation
docker compose up	Builds and starts containers defined in
	compose file
docker compose up -d	Runs containers in detached mode
docker compose down	Stops and removes containers and
	networks
docker compose build	Builds images defined in the compose
	file
docker compose logs	Displays logs of containers managed
	by Docker Compose
docker compose ps	Lists containers managed by Docker
	Compose
docker compose exec <service></service>	Executes a command inside a running
<cmd></cmd>	container
docker compose restart	Restarts containers managed by
	Docker Compose